

PTO/SB/06A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 5

Complete if Known

Application Number	10/665,330
Filing Date	SEPTEMBER 19, 2003
First Named Inventor	MOHAN, et al.
Art Unit	1731
Examiner Name	FORTUNA, JOSE A.
Attorney Docket Number	BLB-024566-V2

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
**	A	US 3,293,114	12-20-1966		
	B	US 3,337,322	01-12-1965		
	C	US 3,460,467	09-23-1969		
	D	US 3,330,334	01-10-1967		
	E	US 3,013,972	10-20-1961		
	F	US 3,779,931	12-10-1973		
	G	US 2,786,264	01-15-1957		
	H	US 3,810,470	06-25-1974		
	I	US 3,041,634	03-02-1966		
	J	US 4,061,277	09-27-1977		
	K	US 4,433,688	01-09-1982		
	L	US 4,170,640	12-15-1978		
	M	US 4,233,325	11-11-1979		
	N	US 4,237,171	12-02-1979		
	O	US 4,241,125	12-23-1979		
	P	US 4,324,753	04-13-1980		
	Q	US 4,435,344	03-06-1984		
	R	US 4,451,505	05-29-1984		
**	S	US 4,482,980	11-20-1984		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
** *	F1	JP 2889767	1997	Oji Paper Co.	

Examiner Signature	/Jose Fortuna/	Date Considered	03/26/2007
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If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

** No inventor name, does not comply with 37 CFR §1.98 (b) (1).

Also, some of the references were cited on the PTO-892 of 3/6/06.

PAGE 14/18 * RCVD AT 7/6/2008 1:13:49 PM [Eastern Daylight Time] * SVR:USPTO-EFXRP-6/28 * DNB:2738300 * CSID:5132486680 * DURATION (mm:ss):08:14

***Not Included. No statement of relevancy. Does not comply with 37 CFR §1.98 (a) (2).

PTQ/SB/UBA (08-03)

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Sheet 2 of 5

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	T	US- 4,540,840	10-22-1986		
	U	US 4,551,265	04-03-1986		
	V	US 4,617,223	10-14-1986		
	W	US 4,619,734	10-28-1986		
	X	US 4,777,930	10-16-1986		
	Y	US 4,781,243	11-01-1986		
	Z	US 4,836,400	06-06-1989		
	A1	US 4,896,732	02-06-1990		
	A2	US 4,902,722	02-20-1990		
	A3	US 4,940,757	06-07-1990		
	A4	US 4,962,722	01-08-1991		
	A5	US 4,988,478	01-29-1991		
	A6	US 5,092,485	03-03-1992		
	A7	US 5,096,050	08-17-1992		
	A8	US 5,126,066	08-30-1992		
	A8	US 5,145,107	09-08-1992		
	B1	US 5,220,565	07-13-1993		
	B2	US 5,363,962	11-13-1994		
	B2	US 5,370,614	12-06-1994		

[illegible]

Examiner Signature	/Jose Fortuna/	Date Considered	03/26/2007
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First Named Inventor	MOHAN, et al.
Art Unit	1731
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		Number-Kind Code ² (if known)				
**	B3	US- 6,424,519	06-10-1995			
	B4	US- 6,454,474	10-03-1995			
	B5	US- 5,477,917	12-26-1995			
	B6	US- 5,478,988	12-26-1995			
	B7	US- 5,490,631	02-13-1996			
	B8	US- 5,499,466	03-10-1996			
	B9	US- 5,520,103	05-28-1996			
	C1	US- 5,604,744	02-11-1997			
	C2	US- 5,637,389	08-10-1997			
	C3	US- 5,705,242	01-06-1998			
	C4	US- 5,769,824	08-02-1998			
	C5	US- 5,792,308	08-11-1998			
	C6	US- 5,800,676	08-04-1998			
	C7	US- 5,800,495	09-09-1999			
	C8	US- 5,884,006	03-16-1999			
	C9	US- 5,952,066	09-14-1999			
	**	D1	US- 6,379,497	04-30-2002		
			US-			
			US-			

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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PTO/SB/088 (08-03)

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Substitute for form 1448/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/685,330		
		Filing Date	SEPTEMBER 19, 2003		
		First Named Inventor	MOHAN, et al.		
		Art Unit	1731		
		Examiner Name	FORTUNA, JOSE A.		
Sheet	4	of	5	Attorney Docket Number	BLB-024566-V2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/JAF/	A	Tappi/May 1972, Vol. 55, No. 5, pg. 770-771	
/JAF/	B	Tappi/December 1973, Vol. 56, No. 12, pg. 158-160	
/JAF/	C	"The Use of Microspheres to Improve Paper Properties", by Soderberg, Paper Technology, August 1989, pgs. VIII/17-VII/21	
***	D	"XPANCEL" An Introduction, a publication from Expancel, Box 13000, SO-850 13 Sundsvall, SWEDEN	
/JAF/	E	"The Application of Microspheres for the Production of High Bulk Papers", by M. Baumeister, Das Papier, Vol. 26, no. 10A: 716-720 (1972)	
/JAF/	F	"Microspheres find use as fiber replacement in low-density board", by David O. Bowen, Pulp & Paper November 1976, pg. 126-127	

Examiner Signature	/Jose Fortuna/	Date Considered	03/26/2007
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*** No dated, does not comply with 37 CFR §1.98 (b)(1).

PTO/SB/068 (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/665,330
Filing Date	SEPTEMBER 19, 2003
First Named Inventor	MOHAN, et al.
Art Unit	1731
Examiner Name	FORTUNA, JOSE A.
Attorney Docket Number	BLB-024566-V2

Sheet

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of

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
****	G	EXPANCEL - Expandable Microspheres in Paper and Board, by Mark Lunabba, KemaNord Plast AB, Sector Microspheres, Box 13000, S-830 13 Sundsvall, SWEDEN	
****	H	"Expandable Microspheres in Board", World Pulp & Paper Technology, pgs, 143-145	
/JAF/	I	"Foams on the Cutting Edge", by Ray Erikson, January 1999	

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**INFORMATION DISCLOSURE
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(use as many sheets as necessary)

Complete If Known

Application Number	09/770,340 10665330
Filing Date	January 26, 2001
First Named Inventor	Kosaraju Krishna MOHAN
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

Sheet 1 of 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figs. Appear
		3,293,114	D. Kenaga, et al.	12/20/1966	
		3,357,322	L. D. Gill	01/12/1965	
		3,468,467	S. W. Amberg	09/23/1969	
		3,556,934	F. Meyer	01/19/1971	
		3,615,972	D. Morehouse, et al.	10/26/1971	
		3,779,951	R. Streu	12/18/1973	
		3,785,254	Robert H. Mann	01/15/1974	
		3,941,634	H. Nisser, et al.	03/02/1976	
		4,051,277	R. M. Wilkinson	09/27/1977	
		4,133,688	W. H. Sack	01/09/1979	
		4,233,325	G. Slangan	11/11/1980	

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		Office ²	Number ³				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴

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10665330

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete If Known			
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		Filing Date	January 26, 2001		
		First Named Inventor	Kosaraju Krishna MOHAN		
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		4,483,889	B. Andersson	11/20/1984	
		4,548,349	R. Tunberg	10/22/1985	
		4,581,285	E. Mahefkey, Jr.	04/08/1986	
		4,617,223	D. F. Hiscock	10/14/1986*	
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		4,777,930	M. E. Hartz	10/18/1988	
		4,781,243	N. DeVogel	11/01/1988	
		4,836,400	W. Chaffey, et al.	06/06/1989	

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First Named Inventor

Kosaraju Krishna MOHAN

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		4,982,722	W. Burk Wyatt	01/08/1991	
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		5,096,650	D. J. Renna	03/17/1992	
		5,125,996	B. C. Campbell, et al.	06/30/1992	
		5,145,107	V. K. Silver	09/08/1992	
		5,226,585	R. Varano	07/13/1993	
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		5,370,814	I. O. Salyer	12/06/1994	
		5,424,519	G. Salee	06/13/1995	

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First Named Inventor

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		5,454,471	J. Norvell	10/03/1995	
		5,477,917	I. Salyer	12/26/1995	
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		Office ²	Number ³				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete If Known

Application Number	09/770,340-10665330
Filing Date	January 26, 2001
First Named Inventor	K. Mohan, et al.
Group Art Unit	
Examiner Name	
Attorney Docket No.	54821.P1

Sheet 5 of 5

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(use as many sheets as necessary)

Compleat If Known

Application Number ~~09/770,340~~ 10605330
 Filing Date January 26, 2001
 First Named Inventor Kosaraju Krishna MOHAN
 Group Art Unit
 Examiner Name
 Attorney Docket No. 54821.P1

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete If Known	
		Application Number	09/770,340 106,5330
		Filing Date	January 26, 2001 June 7, 2001
		First Named Inventor	Kosaraju Krishna MOHAN
		Group Art Unit	
		Examiner Name	
Sheet 1 of 5	Attorney Docket No.	54821.P1	

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